Work Orde				*109	9613*						Page 1
Revision ID:	D3608-1 Lower Double	er		Accept	*N900	<b>040</b>	100	<b>)*</b> s	etup Star Stoj	1 71	S1* S2*
Start Date: Required Date: Reference:	11/21/13 11/21/13	Start Qty: 4.00 Req'd Qty: 4.00	*4* *4*		Cust Item l Customer:	D:					
Approvals:		an: MLJ	Date: \\\^-\\\-\\-\\-\\\-\\\-\\\-\\\-\\\-\\\\-\\\\			ate:		R	tun Stai Sto	1/1	R1* R2*
Sequence ID/ Work Center II	)	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Rev	vision Nbr									
D3608	С										
*100 *100*		FLOW WATER JET		0.00				4	0		Ae
Waterjet FLOW CNC Waterje	et	Memo 1-Cut as pe Dwg Rev:_ Prog Rev:_ 2-Deburr if	C_	0.00							14.01
110		QC2- Inspect parts off r	machine FAI/FAIB	0.00				,1			1-
*110* QC Quality Control	.·	Memo		0.00				7			14.01
120		QC8- Inspect parts - sec	cond check	0.00					<b></b>		DAS 9
*120* . QC		Memo		0.00				_(1)	14-01-0	):J	9-89

Quality Control

QA: \_\_\_\_\_ Date: \_\_\_\_\_

NCR: Yes / No

## **WORK ORDER NON-CONFORMANCE / UPDATE**

										QA Closed:	Dat	e:
Work Ordei	÷.				DISPOSITION				AGAINST DE	PARTMENT	PROCESS	
Part No	0				Rework Scrap Use-as-is Work Order Update		Therm	Skid-tube  Machining  noforming  Large Fab	Crosstube Small Fab Finishing Composite		Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root				Descri	ption of work order update	In	itial	Ac	tion	Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chie	ef Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data												
Equip/Tooling	7					1						
Operator	7	•				ļ						
Material												
Setup		1										
Other		ļ										
Process												
Supplier												
Training												
Unapproved												
			·		F	AULT	CATE	GORY				
Landin	g Gear				General							
L	Bending				Bend		Grain			Ovalized		Pressure/Forced
	Centre No	ot Conce	ntric to (	o/s	BOM/Route	$\square$	Hardwa	re		Over/Under	tolerance	Temperature/Cure
	Cracks				Broken/Damaged		Inspecti	on Incomplete		Part Incorred	ct	Weld
	Crushed/	Crimped		L	Burrs		Instruct	ions Incomplete/	Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs			L	Contamination		Mainte	enance		Part Moved		
Ĺ	Heat Trea	at		L	Countersink		Mislabe	eled		Positioned V	Vrong	<u> </u>
	Inspectio	n Strip in	Tube		Cut Too Short		Misread	1		Power Loss/	Surge	Other
	Ripples in	Bend			Drill Holes	Ш	Offset					
	Torque V	laves in l	Extrusion	ո 🗀	Drawing		Out of 0	Calibration				
	Turning S	equence			Finish		Out of 9	Sequence				
	Mayo/Tu	ict in Tul	ho		Folio	[ ]	Outcide	Dimensions				

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Work Orde November-21-13	er ID 109613 3 2:43:57 PM		*109	9613*						Page 2
Revision ID:	D3608-1		Accept	*N900	<b>040</b>	100	)* s	etup Sta Sto	i /I	S1*
	Lower Doubler  11/21/13			Cust Item II Customer:	D:			510	* *N	S2*
Approvals:	Process Plan:	Date:	Tooling:	Da	nte:	_	F	Run Sta	<sup>rt</sup> *N	R1*
· .	QC:	Date:	SPC (Y/N):	Da	ıte:			Sto	*N	R2*
Sequence ID/ Work Center II		Stock Location: 5T175	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
*150* Packaging Packaging	Memo	5000 2000000 <u>0 1</u> 7.70	0.00				_4x	DAS 28 8-89	14-01	-2
*160 *160*	QC21- Final Inspectio	on - Work Order Release	0.00						Pl 14	-61-3
OC .	Memo		0.00					7	~	- ——

0.00

Memo

\*160\*

Quality Control

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												DQA:	Da	ate:	
NCR:	⁄es	/ No		-		WORK ORDER NON-	COI	NFORM	MANCE / UP	DATE		QA Closed:	Da	ate:	
										4.6.4.11.67				- C.	
Work Orde	er:					DISPOSITION				AGAINST	DE	PARTMENT,			
	-					Rework	7		Skid-tube	Crosstube			Water Jet	:	Engineering
Part N	۱o.					Scrap	1		Machining	Small Fab		Pro	d. Eng. Coor.	-	Quality
	•					Use-as-is	1		noforming	Finishing			re/Packaging	-	Other
NCR I	No.					Work Order Update	1		Large Fab	Composite			Supplier	_	
					-	`									
Root					Descri	ption of work order update		Initial	Act	tion		Sign &			
Cause		Date	Step	Qty	(	or Non-conformance	Ch	nief Eng	Desc	ription		Date	Verificatio	'n	QC Inspector
Doc/Data															
Equip/Tooling															
Operator															
Material															
Setup															
Other															
Process															
Supplier												ļ			
Training															
Unapproved			<u> </u>									<u> </u>			
							FAUI	LT CATE	GORY						
Landi	ng (	Sear				General	_	-				1		_	•
		Bending				Bend		Grain				Ovalized		L	Pressure/Forced
		Centre N	ot Conce	ntric to	o/s	BOM/Route	L	Hardwa	re			Over/Under	tolerance	_	Temperature/Cure
		Cracks			<u> </u>	Broken/Damaged		Inspecti	on Incomplete			Part Incorre	ct		Weld
		Crushed/	Crimped		L	Burrs		-	ions Incomplete/	Unclear		Part Lost/Mi	issing		Wrong Stock Pulled
		Cuffs			<u>L</u>	Contamination		Mainte	enance			Part Moved			
		Heat Trea	at			Countersink		Mislabe	eled			Positioned V	Vrong	_	-
		Inspectio	n Strip in	Tube		Cut Too Short	L	Misread	d .			Power Loss/	Surge		Other

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

Folio

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Page 1

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Work Order ID:

109613

Parent Item:

D3608-1

Parent Item Name:

Lower Doubler

**Start Date:** 11/21/13

Required Date: 11/21/13

Start Qty: 4.00

Required Qty: 4.00

**Comments:** 

IPP Rev:A New Issue 07-03-26 JLM

IPP Rev:B 08-10-15 preliminary issue DD verified by:EC

IPP Rev:C 08-12-11 rev.A as per dwg DD verified by:EC

IPP Rev:D 10.02.16 rev.B as per dwg DD verified by:EC IPP Rev:E 10.11.17 as per PC1 dwg DD verified by:EC

IPP

Rev:E 10.11.29 as ner revC dwg DD verified by:ILM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status	
M304S20GA 304/316 .040 Sheet		Purchased	No	,		100	sf	459.9000	0.7392	3.1124212		13	14.01	. 0
				<b>Location</b>		Loc Qty	<u>Lo</u>	c Code						
				MAT020		459.90001								
				m125	754	24.17001								
				m126	852	115.73						_		
				m127	454	320			12	7454		~ ~	.12	

DQA: Date:

Other

**WORK ORDER NON-CONFORMANCE / UPDATE** 

NCR: Yes / No QA Closed: Date: **AGAINST DEPARTMENT/PROCESS** DISPOSITION Work Order: Engineering Skid-tube Water Jet Rework Crosstube Prod. Eng. Coor. Quality Part No. Machining Small Fab Scrap Rec/Store/Packaging Other Use-as-is Thermoforming Finishing NCR No. Work Order Update Large Fab Composite Supplier Description of work order update Initial Action Sign & Root **Chief Eng** Qty or Non-conformance Description Date Verification QC Inspector Date Step Cause Doc/Data Equip/Tooling Operator Material Setup Other **Process** Supplier Training Unapproved **FAULT CATEGORY Landing Gear** General Ovalized Pressure/Forced Bend Grain Bending BOM/Route Temperature/Cure Over/Under tolerance Centre Not Concentric to O/S Hardware Broken/Damaged Inspection Incomplete Cracks Part Incorrect Weld Wrong Stock Pulled Crushed/Crimped Burrs Instructions Incomplete/Unclear Part Lost/Missing

Maintenance

Out of Calibration

Out of Sequence

**Outside Dimensions** 

Mislabeled

Misread

Offset

Part Moved

Positioned Wrong

Power Loss/Surge

Contamination

Countersink

**Cut Too Short** 

**Drill Holes** 

Drawing

Finish

Folio

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Cuffs

Heat Treat

Inspection Strip in Tube

Torque Waves in Extrusion

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DART AEROSPACE LTD	Work Order:	109613
Description: Lower Doubler	Part Number:	D3608-1
Description. Lower Doddier	Fait Number.	D3000-1
Inspection Dwg: D3608 Rev: C		Page 1 of 1

## FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø0.098	+0.004/-0.001	, <sub>0</sub> 98	-		V	DKm-05
1.82	+/-0.030	1.82	-		V	
0.50	+/-0.030	.50	_		V	
11.63	+/-0.030	11.63			T	JKm-06
81.00	+/-0.030	8100	_		T	
1.350	+/-0.010	1.350			V	
2.25	+/-0.030	2.25			V	
1.81	+/-0.030	1.81	_		<b>V</b>	
3.750	+/-0.010	3,750	_		<b>V</b>	
1.250	+/-0.010	1.250			V	
8.90	+/-0.030	8,90	-		T	
0.400	+/-0.010	,400	_		V	
1.350	+/-0.010	1.350	_		·	
0.345	+/-0.010	345	_		~	
1.875	+/-0.010	1.875			V	
6.73	+/-0.030	6.73	~		V	
2.90	+/-0.030	2.90	_		•	
6.98	+/-0.030	6.98			<b>V</b>	
1.38	+/-0.030	1,38	_		V	
8.44	+/-0.030	8,44	-		T	
0.040	+/-0.010	.037			V	
			-			
			DAS			

			UNU -			
Measured by:	A	ludited by:	9	P	reliminary Approval:	
Date: 14.00	02	Date:	14.01.02		Date:	

Rev	Date	Change	Revised by	Approved
Α	09.05.11	New Issue	KJ	
В	10.02.18	Dimensions updated per Dwg Rev B	KJ 10	
С	10.12.21	Dimensions updated per Dwg Rev C	KJ KX	M



